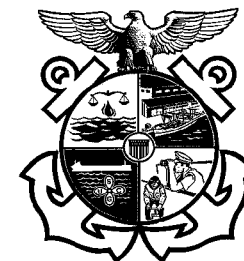


United States Coast Guard



**T-BOAT
INSPECTION BOOK**

Name of Vessel		
Official Number		
Date Completed	Location	
SOLAS Certificates Issued		
Yes	No	
Route		
Oceans	Limited Coastwise	Lakes / Bays / Sounds
Coastwise	Great Lakes	Rivers
Inspection Type		
Inspection for Certification (COI)	Reinspection	Drydock Inspection
Streamlined Inspection Program (SIP) Participant		
Yes	No	
Inspectors		
1. _____	2. _____	

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during inspections of U.S. flagged small passenger vessels subject to 46 CFR Subchapter T. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

NOTE: Guidance on how to conduct inspections of U.S. flagged small passenger vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

- Review MSIS records.
 - MIPIP
 - MICOI
- Obtain copies of forms to be issued.

- Issue letters/certificates to vessel.
- Complete MSIS entries.
 - MIAR
 - MSDS
 - MIDR
 - VFLD
 - VFID
- Initiate Report of Violation (ROV) if necessary.

[illegible]

MSIS Codes for Deficiencies:

Table of Contents:

Section 7: Appendices

Recommended US Vessel Deficiency Procedures:

Step	Action								
1	Identify deficiency.								
2	Inform vessel representative.								
3	Record on the <i>Deficiency Summary Worksheet</i> (next page).								
4	If deficiency is corrected prior to end of inspection, go to Step 7.								
5	<p>If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below.</p> <table border="1"> <thead> <tr> <th>IF deficiency:</th><th>THEN issue CG-835:</th></tr> </thead> <tbody> <tr> <td> <p>Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g.,</p> <ul style="list-style-type: none"> Missing placards Permanent repairs to cracked frame </td><td> <p>That provides a specific time for correcting deficiency, e.g.,</p> <ul style="list-style-type: none"> "X" number of days At next drydock </td></tr> <tr> <td> <p>Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g.,</p> <ul style="list-style-type: none"> Expired international certificates Automation defect Insufficient lifesaving equipment </td><td> <p>That restricts operation of vessel to meet current vessel conditions, e.g.,</p> <ul style="list-style-type: none"> Reduced route Increased crew Fewer passengers </td></tr> <tr> <td> <p>DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g.,</p> <ul style="list-style-type: none"> Missing or defective firefighting equipment Structural defect or damage </td><td> <p>That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g.,</p> <ul style="list-style-type: none"> Prior to carrying passengers Prior to carrying cargo </td></tr> </tbody> </table>	IF deficiency:	THEN issue CG-835:	<p>Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g.,</p> <ul style="list-style-type: none"> Missing placards Permanent repairs to cracked frame 	<p>That provides a specific time for correcting deficiency, e.g.,</p> <ul style="list-style-type: none"> "X" number of days At next drydock 	<p>Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g.,</p> <ul style="list-style-type: none"> Expired international certificates Automation defect Insufficient lifesaving equipment 	<p>That restricts operation of vessel to meet current vessel conditions, e.g.,</p> <ul style="list-style-type: none"> Reduced route Increased crew Fewer passengers 	<p>DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g.,</p> <ul style="list-style-type: none"> Missing or defective firefighting equipment Structural defect or damage 	<p>That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g.,</p> <ul style="list-style-type: none"> Prior to carrying passengers Prior to carrying cargo
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<p>Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g.,</p> <ul style="list-style-type: none"> Missing placards Permanent repairs to cracked frame 	<p>That provides a specific time for correcting deficiency, e.g.,</p> <ul style="list-style-type: none"> "X" number of days At next drydock 								
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6	Enter CG-835 data in MIDR.								
7	Enter deficiency data in MSDS.								
8	Initiate Report of Violation (ROV) if necessary.								

Involved Parties & General Information:

Vessel's Representatives

Phone Numbers

Owner—Listed on DOC (if applicable), or COFR

No Change

Operator

No Change

Section 6: Special Drydock Extension Underwater Survey

NOTE: Drydock extensions of up to 30 months are available to steel or aluminum T-boats that operate on certain low-risk routes in fresh water. Guidance for conducting these surveys is found in MSM Vol. II Ch. B3.A.4.d.

WARNING: ALL passengers must be removed from vessel prior to removal of sea valves.

Review of Application for Underwater Survey:

- ☐ Submitted 90 days before survey date
- ☐ Identify diving contractor
 - Number of divers
 - Type of diving equipment
 - NDT and repair capabilities
- ☐ Copy of diving operations manual
 - Means of waterborne diver support
- ☐ Means of taking rudder bearing clearances
- ☐ Sea chest blanks
- ☐ Letter from master / chief engineer / person-in-charge
- ☐ Diving personnel / equipment
 - NDT qualifications
 - Repair qualifications
 - Video / audio equipment
 - Coast Guard and OSHA safety regulations
- ☐ Hull preparation
 - Cleaning method _____
 - Hull openings permanently marked
- ☐ Hull Maintenance and Condition Assessment Program
 - Preventative maintenance plan
 - Annual hull condition assessment

Notes: _____

Section 2: Certificates and Documents

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endors. Date
Certificate of Documentation No Change	USCG					
Passenger Ship Safety (PSS) No Change	USCG					
Load Line No Change						
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

- | | |
|---|-----------------------|
| <input type="checkbox"/> Airports below weatherdecks | MSM Vol. IV Ch. 6.I.4 |
| <ul style="list-style-type: none"> • Dogs or other securing appliances • Rims or seats • Glass • Dead covers • Hinges and lugs | |
| <input type="checkbox"/> Self-bailers and cockpit freeing ports | 46 CFR 178.420 |
| <ul style="list-style-type: none"> • Check valves • Required area | |
| <input type="checkbox"/> Compartment or inner bottom drains (drydocking drains) | |
| <ul style="list-style-type: none"> • Secure plugs | |
| <input type="checkbox"/> Draft marks and load lines | 46 CFR 185.602 |
| <ul style="list-style-type: none"> • Proper locations • Legibly inscribed • Proper spacing and size • Load line markings verified (vessels ≥ 79 feet) | |

Rudders, Propellers, and Tailshafts:

- | | |
|--|------------------------------------|
| <input type="checkbox"/> Rudder(s) | 46 CFR 176.610 |
| <ul style="list-style-type: none"> • Skeg • Stock • Fastenings • Bushings | |
| <input type="checkbox"/> Propeller(s) | 46 CFR 176.610 |
| <ul style="list-style-type: none"> • Locknuts • Rope guard | |
| <input type="checkbox"/> Tailshaft(s) | 46 CFR 176.630
MSM Ch. B3.D.2.a |
| <ul style="list-style-type: none"> • Stern tube and gland • Key and keyway • Shaft sleeve or liner • Struts and strut bearings | |

Notes: _____

Certificates:

- | | |
|---|--|
| <input type="checkbox"/> COI posted | 46 CFR 176.107
46 CFR 176.302 |
| <ul style="list-style-type: none"> • All pages visible | |
| <input type="checkbox"/> Stability letter posted | 46 CFR 176.306 |
| <input type="checkbox"/> Small Passenger Vessel (SPV) decal posted | 46 CFR 176.310 |
| <input type="checkbox"/> Station bill posted
(vessels > 65 feet with more than 4 crew members) | 46 CFR 185.514 |
| <input type="checkbox"/> Waste management plan
(oceangoing vessels ≥ 40 feet) | 33 CFR 151.57 |
| <input type="checkbox"/> Red Cross first aid / CPR cards for 50% of crew | NVIC 1-91 |
| <input type="checkbox"/> Annual drug and alcohol program audit | 46 CFR Part 16 |
| <input type="checkbox"/> Liferaft servicing certificates | 46 CFR 160.151-57(p)
SOLAS 74/78 III/19.8 |
| <ul style="list-style-type: none"> • Annual service | |
| <input type="checkbox"/> Fixed fire extinguisher servicing certificates | 46 CFR 176.810(b)(2) |
| <ul style="list-style-type: none"> • Annual service | |
| <input type="checkbox"/> Required international safety convention certificates posted and valid | 46 CFR 176.302 |

Manning Certification:

- | | |
|--|---------------------------------|
| <input type="checkbox"/> Operator's license | 46 CFR 15.805
46 CFR 185.402 |
| <ul style="list-style-type: none"> • Name • Issue date • Tonnage • Route | |

Notes: _____

Section 5: Drydock Inspection Items

Hull Structural Integrity:

- | | |
|--|-----------------------------|
| <input type="checkbox"/> Vessel plans available
(vessels with load lines) | 46 CFR 176.612 |
| <input type="checkbox"/> External structural members | 46 CFR 176.610
NVIC 7-95 |
| <ul style="list-style-type: none"> • Plating • Planking • Caulking • Reinforcing straps • Stem • Transom • Bilge keels • Keel • Welds • Pitting • Signs of electrolysis | |

Overall Condition:

Poor	Good

Areas of particular interest: _____

Section 3: Inspection Items

Navigation Safety:


- | | |
|--|--|
| <input type="checkbox"/> Voyage plan
(vessels on oceans / coastwise routes, vessels with overnight passengers) | 46 CFR 185.503 |
| <input type="checkbox"/> Passenger count
(if voyage plan not required) | 46 CFR 185.504 |
| <input type="checkbox"/> Emergency instruction list posted | 46 CFR 185.510 |
| <input type="checkbox"/> Navigation publications <ul style="list-style-type: none"> • Current and corrected charts (large enough scale to navigate safely) • U.S. Coast Pilot • Coast Guard Light List • Tide tables • Tidal current tables • International Rules of the Road (SOLAS only) | 46 CFR 184.420 |
| <input type="checkbox"/> Navigation lights
(vessels > 65 feet must meet UL 1104) <ul style="list-style-type: none"> • Side shields <ul style="list-style-type: none"> – Fitted as needed – Painted black matte | 46 CFR 183.420
33 CFR Part 84
72 COLREGS |
| <input type="checkbox"/> Radar | 46 CFR 184.404 |
| <input type="checkbox"/> Magnetic compass
(vessels on oceans / coastwise / limited coastwise routes) <ul style="list-style-type: none"> • Illuminated (unless limited to daytime operations) | 46 CFR 184.402 |
| <input type="checkbox"/> Signaling devices (sound) <ul style="list-style-type: none"> • Whistle / horn tested • Proper bell size | 33 CFR Part 86 |

Notes: _____

☐ **Fire Drill:**

Notes: _____

[illegible]

- | IF vessel is: | AND carries: | THEN vessel must have: |
|---------------|---|------------------------|
| > 65 feet |  | Fixed installation |
| ≤ 65 feet | > 49 passengers | Battery bullhorn |
| ≤ 65 feet | ≤ 49 passengers | None required |

- ### Structural Integrity:

- Notes: _____
- _____
- _____
- _____
- _____
- _____

- ☐ Batteries (and alternator, if required) 46 CFR 176.806
 46 CFR 183.310
 46 CFR 183.350
 46 CFR 183.354
- Overload protection
 - Ventilation
 - Protective covering
 - Battery charger with ammeter connected to charging circuit (46 CFR 183.05-20)
 - Cable connectors (permanent type)
 - Corrosion-resistant tray or mounting

Service	Location

- ☐ Switchboards and distribution panels 46 CFR 183.330
 (46 CFR 183.05-15)
 (46 CFR 183.10-15)
- Circuits and electrical equipment marked and identified
 – Warning sign for multiple power sources 46 CFR 183.220
 - Protective covering
 - Dripshield
 - Overcurrent protection 46 CFR 183.380
- ☐ Radios fused at main panel 46 CFR 183.392
- ☐ Cable, wiring, receptacles, outlets, accessories 46 CFR 183.340
 (46 CFR 183.05-40)
 (46 CFR 183.05-45)
 (46 CFR 183.05-50)
 (46 CFR 183.10-20)
- Installation
 – Wire type
 – Wire size
 – Splices
 – Connectors
 – Metal wire supports every 24 inches
 - Grounding
 - Overcurrent protection 46 CFR 183.370
 46 CFR 183.380

Notes: _____

General Health and Safety:

- ☐ General alarm tested 46 CFR 183.550
- ☐ Upper decks marked for maximum number of passengers per stability letter 46 CFR 185.602(g)
- ☐ Crew accommodations (46 CFR 177.30-5)
- Adequate berthing 46 CFR 177.710
 - Sanitary conditions 46 CFR 176.818
- ☐ Passenger accommodations (46 CFR 177.30-5)
- Adequate berthing 46 CFR 177.810
 - Adequate seating 46 CFR 177.820
 - Sanitary condition 46 CFR 176.818
- ☐ Means of escape 46 CFR 177.500
- Operable from both sides
 - Marked "Emergency Exit, Keep Clear" 46 CFR 185.606
- ☐ Cooking and heating systems
- B-15 Class fire boundaries 46 CFR 177.410(c)(1)
 - No open-flame or high-heat system on GP / FRP vessels
 - LPG / CNG stowage 46 CFR 184.240
 - Shutoff valves installed on gas systems
 - Sea rails installed on galley stoves 46 CFR 184.220
- ☐ Sanitary inspection 46 CFR 176.818
- Galley
 - Serving pantries
 - Lockers
- ☐ Ventilation 46 CFR 177.600
- Ventilation
- ☐ Passenger Safety Orientation 46 CFR 185.506
- Public announcement
 - Card or pamphlet

Notes: _____

- ☐ **Non-metallic piping materials**
 - Rigid pipe non-vital systems only
 - Flexible hose must meet SAE J-1492
46 CFR 182.720
(46 CFR 182.40)
- ☐ **Shaft log free of excess leakage**
 - Reasonable dripping
 - Testing ahead and astern
 - Remaining adjustment on stuffing box bolts
46 CFR 176.802(c)
- ☐ **Bilge pumps tested**
 - Source of power for each pump
 - Overboard discharge
 - Visual indicator for auto bilge pump operation
46 CFR 176.804(h)
46 CFR 182.520(a)
- ☐ **Portable bilge pump tested (5 GPM)**
 - Suction capable of reaching the bottom of all compartments
46 CFR 182.530(c)
- ☐ **Bilge piping**
 - Check valves in each compartment or stop / check valves at manifold
 - Valve fitted on collision bulkhead
 - Screw down valve type
 - Operable from weatherdeck if forward; readily accessible if aft
46 CFR 182.510(c)
46 CFR 182.510(d)
(46 CFR 182.25-5(d))
- ☐ **Bilge high level alarm**
 - Visible / audible
 - Located at operating stations
46 CFR 182.530
- ☐ **Deck machinery**
 - Windlass
 - Winches
 - Capstans
 - Controls
 - Guards
46 CFR 176.816

Notes: _____

- ☐ **Lifefloats and buoyant apparatus**
 - Coast Guard approval
 - Lifeline
 - Pendants
 - Two paddles per lifefloat
 - 4 feet in length
 - Marked with vessel name
 - Watertight with proper battery
 - Properly mounted, secure splices
 - Watertight globe
 - Float-free
 - Marked with vessel name
 - Stowage
 - Properly sized and approved weak link
 - Sea painter
 - Retro-reflective tape
46 CFR 180.200(a)(2)
46 CFR 180.175(d)
46 CFR 180.175(f)
46 CFR 160.010-8

46 CFR 185.604(g)
- ☐ **Inflatable buoyant apparatus**
 - Annual service
46 CFR 185.604(a)
(46 CFR 180.20-5)
46 CFR 180.130
46 CFR 180.137
46 CFR 160.037
NVIC 2-63
- ☐ **Inflatable liferafts**
 - Capacity of 6 or more persons
 - Stowage
 - Float-free
 - Annual service
46 CFR 180.175
46 CFR 180.200
- ☐ **Inflatable survival craft placards posted**
 - Annual service
46 CFR 185.518
- ☐ **Rescue boats / rescue platforms**
(vessels > 65 feet)
 - Marked with vessel name
 - Capacity
 - Retro-reflective tape
 - Small, lightweight with floatation
 - Readily launched, easily maneuvered
 - Capable of recovering person without capsizing
46 CFR 180.210
(46 CFR 180.10-35)
46 CFR 185.604(a)(1)
46 CFR 185.604(d)
46 CFR 185.604(i)
NVIC 1-87
- ☐ **Survival craft maintenance**
(vessels > 65 feet)
 - Manufacturer's instructions on board
 - Inspections / examinations logged
 - Weekly / monthly / quarterly / annually inspected / examined
46 CFR 185.702
46 CFR 185.720
46 CFR 185.722
46 CFR 185.724
46 CFR 185.726

Notes: _____

- ☐ **Exhaust system** 46 CFR 182.425
- Type of exhaust cooling system _____
 - Loss of cooling alarm on vessel with wet exhaust (vessels with a separate exhaust cooling pump must have a loss of cooling alarm)
 - Visible / audible
 - Located at operating station
 - Leaks 46 CFR 182.430 (46 CFR 182.15-20(a))
 - Seams
 - Elbows
 - Joints
 - Flexible hoses
- ☐ **Fuel system** 46 CFR 176.804
- Tank space properly vented
 - > 500 cubic feet = gooseneck > 2.5 inches 46 CFR 182.460 (46 CFR 182.15-45)
 - < 500 cubic feet = gooseneck > 1.5 inches 46 CFR 182.470 (46 CFR 182.20-50)
 - Fuel tank vents
 - Vent openings not located adjacent to possible sources of vapor ignition 46 CFR 182.450(e) (46 CFR 182.15-35)
 - 30 x 30 mesh screen
 - Independent fuel tanks grounded
 - Electrically bonded to a common ground 46 CFR 182.440(b)(4) (46 CFR 182.15-25(b)(4))
 - Portable fuel tanks
 - Stowed on deck in racks 46 CFR 182.458 MSM Ch. B4.A.3.i
 - “No Smoking” placards posted
 - Shutoff valves tested (tank and engines)
 - Located at the ends of each fuel line 46 CFR 182.455(b)(4) (46 CFR 182.15-40(b)(3)) (46 CFR 182.20-40(b)(3))
 - If tank end not located outside of tank space, handle must be within 12-inch reach and shielded
 - Remote emergency fuel valves labeled for purpose and direction of operation / tested 46 CFR 185.608 (46 CFR 185.30-20)
 - Fuel strainers 46 CFR 182.455(b)(6)
 - Fuel tank fill hose
 - Top flange grounded to tank (46 CFR 182.15-40(b)(5)) (46 CFR 182.20-40(b)(5))
 - Flexible hoses (SAE J-1942) 46 CFR 182.445(g) (46 CFR 182.20-30(d))
 - Solid bottom type petcocks with tapered plugs and union bonnets 46 CFR 182.455(b)(3) (46 CFR 182.15-40(a)(5)) (46 CFR 182.20-40(a)(4))
 - Safety devices and alarms
 - Termination of filling, sounding or vent pipes outside vessel

Notes: _____

Fire Protection:

- ☐ **Fire and smoke detection systems** 46 CFR 176.810(a)(7)
(required on existing wood / FRP vessels) 46 CFR 181.400(c)
46 CFR 181.400(e)
46 CFR 181.450
- Sensors tested
 - Alarms tested
- ☐ **Portable and semiportable fire extinguishers** 46 CFR 176.810
- Annual service in accordance with NFPA 10 46 CFR 176.810(b)(1)
 - Date cylinders hydro-tested _____
 - Proper location 46 CFR 181.500
46 CFR 181.520

Required		On Board	
Number	Class	Number	Class

- ☐ **Fixed fire extinguishing systems** 46 CFR 176.810(a)
46 CFR 176.810(b)
46 CFR 181.400
46 CFR 181.410
46 CFR 181.420
(46 CFR 181.20)
- Annual service
 - Date cylinders weighed _____
 - Date cylinders hydro-tested _____
 - Sprinklers tested in vehicle spaces
 - Alarms
 - Engine / power ventilation shutdowns tested 46 CFR 182.465(h)
(engine shutdown not required on existing vessels (46 CFR 181.20-35) with CO₂, BUT is required with Halon) NVIC 6-72
 - Manual ventilation closures on protected spaces
 - Instructions at controls and in space 46 CFR 185.612
 - Piping
 - Valves
 - Controls

Spaces Protected	Agent	Capacity

Notes: _____
